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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 12/10/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.

1940 DUKE STREET ALEXANDRIA, VA 22314 EXAMINER

MALEKZADEH, SEYED MASOUD PAPER NUMBER ARTHNIT

1743

DATE MAILED: 12/10/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,328	05/15/2006	Stephane Revol	290905US6X PCT	2136

TITLE OF INVENTION: DEVICE FOR FILLING A MOULD WITH A POWDER OR A MIXTURE OF POWDERS

APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/10/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED.</u> THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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appropriate. All further indicated unless correcte maintenance fee notifical	correspondence includired below or directed oth	or transmitting the 1880 ig the Patent, advance of nerwise in Block 1, by (a	rders and notification of n a) specifying a new corres	naintenance fees will pondence address; a	ll be mailed to the curren und/or (b) indicating a sep	snould be completed where t correspondence address as sarate "FEE ADDRESS" for
CURRENT CORRESPONDI	ENCE ADDRESS (Note: Use Bi	ock 1 for any change of address)	Note Fee(pape have	e: A certificate of m s) Transmittal. This rs. Each additional p its own certificate of	ailing can only be used f certificate cannot be used paper, such as an assignm of mailing or transmission.	or domestic mailings of the for any other accompanying ent or formal drawing, must
OBLON, SPIV 1940 DUKE STI ALEXANDRIA	7590 12/10 AK, MCCLELLA REET , VA 22314					
						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	1	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,328	05/15/2006		Stephane Revol		290905US6X PCT	2136
			POWDER OR A MIXTUR			1
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nonprovisional	NO	\$1510	\$300	\$0	\$1810	03/10/2011
EXAM	INER	ART UNIT	CLASS-SUBCLASS			
MALEKZADEH, S	SEYED MASOUD	1743	264-239000			
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required. 3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 2 or more recent) attach	inge of Correspondence Indication form and. Use of a Customer A TO BE PRINTED ON	2. For printing on the p (1) the names of up to or agents OR, alternativ (2) the name of a single registered autorney or a 2 registered patent auto- listed, no name will be THE PATENT (print or typ.)	3 registered patent vely, e firm (having as a nigent) and the names meys or agents. If no printed.	member a 2 of up to o name is 3	
(A) NAME OF ASSIG	GNEE	ified below, no assignee pletion of this form is NO	(B) RESIDENCE: (CITY	and STATE OR CO	OUNTRY)	coup entity Government
4a. The following fee(s): Issue Fee Publication Fee (N Advance Order -	o small entity discount p		b. Payment of Fee(s): (Plea A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038 i	is attached.	eshown above) eficiency, or credit any an extra copy of this form).
	s SMALL ENTITY state	as. See 37 CFR 1.27.			ENTITY status. See 37 C	
NOTE: The Issue Fee an interest as shown by the	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other than to Office.	he applicant; a regist	ered attorney or agent; or t	he assignee or other party in
Authorized Signature				Date		
Typed or printed name				Registration No		
This collection of inform an application. Confident submitting the complete this form and/or suggesti Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	CFR 1.311. The informatic U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to the ONOT SEND FEES OR	on is required to obtain or r 1.14. This collection is est depending upon the indiv e Chief Information Office COMPLETED FORMS TO	etain a benefit by the imated to take 12 mi idual case. Any com r, U.S. Patent and To THIS ADDRESS.	e public which is to file (ar inutes to complete, includi iments on the amount of t rademark Office, U.S. Dep SEND TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and ime you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

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1940 DUKE STR	EET	ART UNIT	PAPER NUMBER		
ALEXANDRIA,	VA 22314	1742			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 122 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 122 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/579 328 REVOL. STEPHANE Notice of Allowability Examiner Art Unit Seved M. Malekzadeh 1743 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to the amendment filed on 09/24/2010. The allowed claim(s) is/are 16-18,20-30,32 and 34. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) 🔯 All b) ☐ Some* c) ☐ None of the: 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. \(\overline{\text{ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. ☐ Other . /S. M. M./

Examiner, Art Unit 1743

Application/Control Number: 10/579,328

Art Unit: 1743

DETAILED ACTION

Response to Amendment

Claims 1- 15, 19, 31, 33, and 35 are cancelled.

In view of the amendment, filed on 09/24/2010, following **rejections** are **withdrawn** from the previous office action for the reason of record.

- Rejection of claims 16-30, 32, and 34 under 35 U.S.C. 112, first paragraph
- Rejection of claims 16- 30, 32, and 34 under 35 U.S.C. 112, second paragraph
- Rejection of claims 16- 18, 26, 29- 30, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US '500) in view of Kita (JP 04-97964)
- Rejection of claims 19- 24 and 34 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US 6,402,500) in view of Kita (JP '964) and further in view of Souers et al. (US 5,296,202)
- Rejection of claim 25 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US '500) in view of Kita (JP '964) and Souers et al. (US '202) and further in view of Olson et al. (US 4,437,613)

Application/Control Number: 10/579,328

Art Unit: 1743

 Rejection of claims 27- 28 under 35 U.S.C. 103(a) as being unpatentable over Zahrah et al. (US 6,402,500) in view of Kita (JP '964) and further in view of Bottoms (US 3,780,887)

Response to Arguments

Applicant's **arguments** in remarks, filed on 09/24/2010, with respect to the allowability of the claimed subject matter have been fully considered and **are persuasive.** Therefore, rejections of the claims 16-18, 20-30, 32, and 34 have been withdrawn.

Allowable Subject Matter

Claims 16-18, 20-30, 32, and 34 are allowed.

The following is an examiner's statement of **reasons for allowance**:

The prior arts fail to teach or suggest a system comprising at least one mold and a device for filling the mold with the powder while the mold having an internal volume divided into an array of several sections in such a way that the device comprising means for adding the at least one powder into the filling device, at least one means for ejecting the powder added into the filling device in the form of a layer and a plurality of deflectors placed above the mold each of the deflectors being placed above at least one, but not all, of the sections of the internal volume of the mold in which the deflectors being configured to locally intercept at least part of the powder ejected in the form of a layer and redirect locally intercepted powder towards the section of the internal volume of the

Application/Control Number: 10/579,328

Art Unit: 1743

mold above which each of the respective deflectors are placed wherein the at least one means for ejecting the powder is a rotating device and wherein at least one of the deflectors is coupled to the rotating device, as claimed in the independent claim 16.

The closest prior arts of Zahrah et al. (US '500), Kita (JP '964), Souers et al. (US '202), Olson et al. (US '613), and Bottoms (US '887) fail to teach a plurality of deflectors placed above the mold in which each of the deflectors being placed above at least one but not all of the sections of the internal volume of the mold in which each deflector redirect the locally intercepted powder towards the section of the internal volume of the mold above which each of the respective deflectors is placed, and wherein the means for ejecting the powder is a rotating device and at least one of the deflectors is coupled to the rotating device. Thus, the claims 16- 18, 20- 30, 32, and 34 deemed allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Seyed M. Malekzadeh whose telephone Art Unit: 1743

number is (571)272-6215. The examiner can normally be reached on Monday to Friday 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph S. Del Sole, can be reached on (571) 272-1130. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. M. M. /

Examiner, Art Unit 1743

/Joseph S. Del Sole/

Supervisory Patent Examiner, Art Unit 1743